Carbohydrate Research, 240 (1993) C1–C2
Elsevier Science Publishers B.V., Amsterdam

AUTHOR INDEX

Akaike, T. 153
André, C. 47
Arashida, T. 153
Auzanneau, F.-I. 161
Axelos, M.A.V. 219

Baer, H.H. 1
Bernabé, M. 119
Bernacki, R.J. 85
Brillouet, J.-M. 233
Brown, J.A. 95
Bundle, D.R. 161

Cadenas, R.A. 79
Cao, L. 107, 295
Caro, H.-N. 119
Chen, Q. 107
Colin-Morel, P. 71
Courtois, B. 71
Courtois, J. 71

Dantas, L. 71
Dayal, B. 133
Deffieux, A. 143
De Gracia García Martín, M. 301
De Paz Báñez, M.V. 301

El-Sokkary, R.I. 287

Fanton, E. 143
Fayet, C. 143
Florent, J.-C. 313
Fontanille, M. 143
Fry, S.C. 95
Fuhrhop, J.-H. 47
Fujimori, Y. 39

Gagnet, R. 313
Galbis Pérez, J.A. 301
Garnier, C. 219
Gelas, J. 143
Goux, W.J. 57
Guan, H.-P. 253

Hamada, M. 307
Hanna, H.R. 161
Hatanaka, K. 153
Hayashi, T. 207
Helm, R.F. 23
Heyraud, A. 71
Hillman, M.J. 85

Inagaki, E. 39
Ishino, T. 153

Jhurry, D. 143

Kai, A. 153
Kaihou, S. 207
Kaneko, Y. 153
Kim, E.J. 197
Kong, F. 107, 295
Korytnyk, W. 85

Lee, C.K. 197
Lee, I.-S.H. 197
Leicach, S.R. 79
Liu, J. 295
Luger, P. 47

Maeda, M. 207
Manley-Harris, M. 183
Marcelin, O. 233
Martín-Lomas, M. 119
Matsuzaki, K. 153
Mimura, T. 153
Monneret, C. 313

Nakamura, S. 39
Nashed, M.A. 287
Nehls, I. 245
Nematalla, A.S. 287

Otsuru, O. 207

Padia, J. 133
Philipp, B. 245
Preiss, J. 253, 265

Ralph, J. 23
Richards, G.N. 183
Richards, J.C. 277

Salen, G. 133
Sasso, G. 133
Severn, W.B. 277
Sharma, M. 85
Shefer, S. 133
Shitara, T. 307
Silwanis, B.A. 287
Sproviero, J.F. 79
Svenson, S. 47

Taga, T. 39
Takeda, Y. 253, 265
Takeuchi, T. 307
Thibault, J.-F. 219
Tint, G.S. 133
Tomono, N. 307
Tsuchiya, T. 307

Umemura, E. 307
Umezawa, S. 307

Wagenknecht, W. 245
Weber, D.S. 57
Williams, P. 233
Williams, T.H. 133

Youssef, R.H. 287

Carbohydrate Research, 240 (1993) C3–C5
Elsevier Science Publishers B.V., Amsterdam

SUBJECT INDEX

2-Acetamido-2-deoxy-D-hexopyranoses, synthesis of 3-deoxy-3-fluoro derivatives of, 85
Algae, siphonous green, *Codium latum*, studies on the cell-wall mannan of the, 207
2-Amino-2-deoxy-3,4,5,6-tetra-*O*-methyl-D-gluconic acid hydrochloride, an intermediate in the preparation of polypeptide-type polyamides, 301
Aminotrideoxysugars for the synthesis of cyclophosphamide analogs, 313
Amylose, branching of, by the branching isoenzymes of maize endosperm, 253
1,2-Anhydro-3,4,6-tri-*O*-benzyl-β-D-talopyranose, synthesis and conformation of, 295
Anomerization and transglycosylation reactions of permethylated methyl D-glycopyranosides, 197
Antigen, the synthesis of chemically modified disaccharide derivatives of the *Shigella flexneri* Y polysaccharide, 161
L-Arabinopyranoses, tetra-*O*-benzoyl-α,β-, contribution of the *O*-benzoyl groups of to the formation of 1,1-bis(benzamido)-1-deoxy-L-arabinitol, 79
Arbekacin and its analogs, and study of structure–toxicity, synthesis of low-toxicity, 5-deoxy-5-fluoro and 5-deoxy-5,5-difluoro derivatives of, 307

Bile alcohol glucuronides: regioselective *O*-glucuronidation of 5β-cholestane-3α,7α,12α,25-tetrol and 24-nor-5β-cholestane-3α,7α,12α,25-tetrol, 133
Biosynthesis of curdlan from culture media containing ^{13}C-labeled glucose as the carbon source, 153
1,1-Bis(benzamido)-1-deoxy-L-arabinitol, contribution of the benzoyl groups of tetra-*O*-benzoyl-α,β-L-arabinopyranoses to the formation of, 79

Carbohydrates, novel *O*-galacturonoyl derivatives, the preparation and susceptibility to hydrolysis, 95
Cell-wall types from guava (*Psidium guajava* L.) pulp, isolation and characterisation of the two main, 233
Cellulose sulfation in an N_2O_4–*N,N*-dimethylformamide–cellulose system, studies on the regioselectivity of, 245
5β-Cholestane-3α,7α,12α,25-tetrol and 24-nor-5β-cholestane-3α,7α,12α,25-tetrol, regioselective *O*-glucuronidation of,: bile alcohol glucuronides, 133
Conformation and synthesis of 1,2-anhydro-3,4,6-tri-*O*-benzyl-β-D-talopyranose, 295
Conformational analysis, synthesis, and the glycosidic coupling reaction of substituted 2,7-dioxabicyclo[4.1.0]heptanes: 1,2-anhydro-3,4-di-*O*-benzyl-β-L- and D-rhamnopyranoses, 107
Crystal and molecular structure of the trisaccharide erlose as the monohydrate, 39
Curdlan from culture media containing ^{13}C-labeled glucose as the carbon source, biosynthesis of, 153
Cyclophosphamide analogs from aminotrideoxysugars, 313

3-Deoxy-3-fluoro derivatives of 2-acetamido-2-deoxy-D-hexopyranoses, synthesis of, 85
Disaccharide derivatives of the *Shigella flexneri* Y polysaccharide antigen, the synthesis of chemically modified, 161

Erlose as the monohydrate, the crystal and molecular structure of the trisaccharide, 39

Fluoro and 5-deoxy-5,5-difluoro derivatives of arbekacin and its analogs, and study of structure–toxicity relationships, synthesis of low-toxicity, 5-deoxy-5-, 307

3-Fluoro, 3-deoxy-, derivatives of 2-acetamido-2-deoxy-D-hexopyranoses, synthesis of, 85
Fructoglucan from the thermal polymerization of sucrose, a novel, 183

O-β-D-Galactopyranosyl-(1 → 4)-β-D-glucopyranoside, allyl, synthesis of derivatives of, 287
Galactose derivatives, syntheses and insulin-like activity of phosphorylated, 119
O-Galacturonoyl derivatives of carbohydrates, the preparation and susceptibility to hydrolysis of novel, 95
Gelation of pectins with different degrees of methylation, influence of pH, ionic strength, and temperature, 219
D-Gluconic acid hydrochloride, preparation of 2-amino-2-deoxy-3,4,5,6-tetra-*O*-methyl-, an intermediate in the preparation of polypeptide-type polyamides, 301
Glucuronan produced by a *Rhizobium meliloti* M5N1 mutant strain, structural characterization and rheological properties of an extracellular, 71
Glucuronides, bile alcohol: regioselective *O*-glucuronidation of 5β-cholestane-3α,7α,12α,25-tetrol and 24-nor-5β-cholestane-3α,7α,12α,25-tetrol, 133
Glycolipid (SL-IV) from *Mycobacterium tuberculosis*, the structure of an antigenic, 1
Glycopyranosides, anomerization and transglycosylation reactions of permethylated methyl D-, 197
Glycosidic coupling reaction, synthesis, conformational analysis of substituted 2,7-dioxabicyclo[4.1.0]heptanes: 1,2-anhydro-3,4-di-*O*-benzyl-β-L- and D-rhamnopyranoses, 107
Guava (*Psidium guajava* L.) pulp, isolation and characterisation of the two main cell-wall types from, 233

D-Hexopyranoses, 2-acetamido-2-deoxy-, synthesis of 3-deoxy-3-fluoro derivatives of, 85
Hydrolysis of novel *O*-galacturonoyl derivatives of carbohydrates, the preparation and susceptibility to, 95
Hydroxycinnamoylated methyl α-L-arabinofuranosyl-(1 → 2)- and (1 → 3)-β-D-xylopyranosides, synthesis and spectroscopic characterization of, 23

Insulin-like activity of phosphorylated galactose derivatives, 119
Isolation and characterisation of the two main cell-wall types from guava (*Psidium guajava* L.) pulp, 233

Labeled glucose as the carbon source, biosynthesis of curdlan from culture media containing ^{13}C-, 153

Maize starches, structures of B90 (*sugary*) and W64A (normal), 265
Maize endosperm, branching of amylose by the branching isoenzymes of, 253
Mannan, cell-wall, of the siphonous green algae, *Codium latum*, studies on, 207
Mycobacterium tuberculosis, the structure of an antigenic glycolipid (SL-IV) from, 1

NMR-pattern-recognition methods, the application of, to the classification of reduced, peracetylated oligosaccharide residues, 57
24-Nor-5β-cholestane-3α,7α,12α,25-tetrol and 5β-cholestane-3α,7α,12α,25-tetrol, regioselective *O*-glucuronidation of,: bile alcohol glucuronides, 133

(1-Octyl)-D-talonamide and a consideration of its hydrogen-bonding scheme, the X-ray crystal structure of *N*-, 47
Oligosaccharide residues, the application of NMR-pattern-recognition methods to the classification of reduced, peracetylated, 57
Oligosaccharide synthesis, synthesis of standardized intermediates for, 287

Pasteurella haemolytica serotype A1, characterization of the *O*-polysaccharide of, 277
Pattern-recognition methods, NMR, the application of, to the classification of reduced, peracetylated oligosaccharide residues, 57
Pectins with different degrees of methylation, influence of pH, ionic strength, and temperature on the gelation of, 219
Phase diagrams of pectin–calcium systems, influence of pH, ionic strength, and temperature on the gelation of pectins with different degrees of methylation, 219
Phosphorylated galactose derivatives, syntheses and insulin-like activity of, 119
Polymerization and copolymerization with styrene. Synthesis of 4-*O*- and 6-*O*-monoacryloyl derivatives of sucrose by selective hydrolysis of 4,6-*O*-(1-ethoxy-2-propenylidene)sucrose, 143
Polymerization of sucrose, a novel fructoglucan from the thermal, 183
Polypeptide-type polyamides, 2-amino-2-deoxy-3,4,5,6-tetra-*O*-methyl-D-gluconic acid hydrochloride as an intermediate in the preparation of, 301

O-Polysaccharide of *Pasteurella haemolytica* serotype A1, characterization of the, 277

Rhamnopyranoses, 1,2-anhydro-3,4-di-*O*-benzyl-β-L- and D-: synthesis, conformational analysis, and glycosidic coupling reaction of substituted 2,7-dioxabicyclo[4.1.0]heptanes, 107

Rhizobium meliloti M5N1 mutant strain, structural characterization and rheological properties of an extracellular glucuronan produced by a, 71

Shigella flexneri Y polysaccharide antigen, the synthesis of chemically modified disaccharide derivatives of the, 161

Starches, structures of B90 (*sugary*) and W64A (normal) maize, 265

Structural characterization and rheological properties of an extracellular glucuronan produced by a *Rhizobium meliloti* M5N1 mutant strain, 71

Structure of an antigenic glycolipid (SL-IV) from *Mycobacterium tuberculosis*, 1

Sucrose, a novel fructoglucan from the thermal polymerization of, 183

Sucrose, synthesis of 4-*O*- and 6-*O*-monoacryloyl derivatives of, by selective hydrolysis of 4,6-*O*-(1-ethoxy-2-propenylidene)sucrose. Polymerization and copolymerization with styrene, 143

Sulfation in an N_2O_4–*N,N*-dimethylformamide–cellulose system, studies on the regioselectivity of cellulose, 245

Synthesis, conformational analysis, and the glycosidic coupling reaction of substituted 2,7-dioxabicyclo[4.1.0]heptanes: 1,2-anhydro-3,4-di-*O*-benzyl-β-L- and D-rhamnopyranoses, 107

Synthesis of low-toxicity, 5-deoxy-5-fluoro and 5-deoxy-5,5-difluoro derivatives of arbekacin and its analogs, and study of structure–toxicity relationships, 307

Synthesis and conformation of 1,2-anhydro-3,4,6-tri-*O*-benzyl-β-D-talopyranose, 295

Synthesis of cyclophosphamide analogs, 313

Synthesis and spectroscopic characterization of hydroxycinnamoylated methyl α-L-arabinofuranosyl-(1 → 2)- and (1 → 3)-β-D-xylopyranosides, 23

Talonamide and a consideration of its hydrogen-bonding scheme, the X-ray crystal structure of *N*-(1-octyl)-D-, 47

β-D-Talopyranose, 1,2-anhydro-3,4,6-tri-*O*-benzyl-, synthesis and conformation of, 295

Transglycosylation reactions of permethylated methyl D-glycopyranosides, anomerization and, 197

X-ray crystal structure of *N*-(1-octyl)-D-talonamide and a consideration of its hydrogen-bonding scheme, 47

Xylopyranosides, synthesis and spectroscopic characterization of hydroxycinnamoylated methyl α-L-arabinofuranosyl-(1 → 2)- and (1 → 3)-β-D-, 23